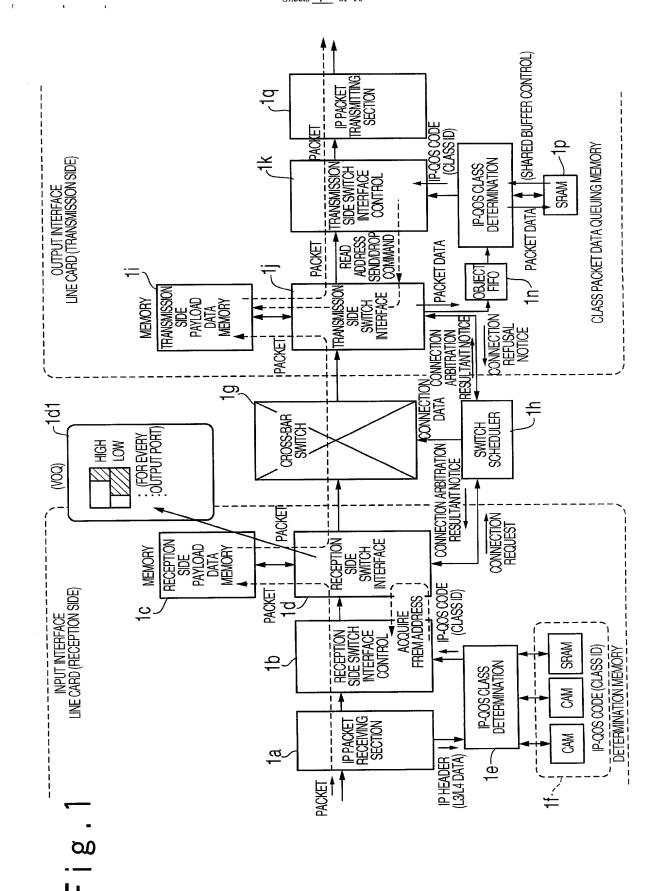
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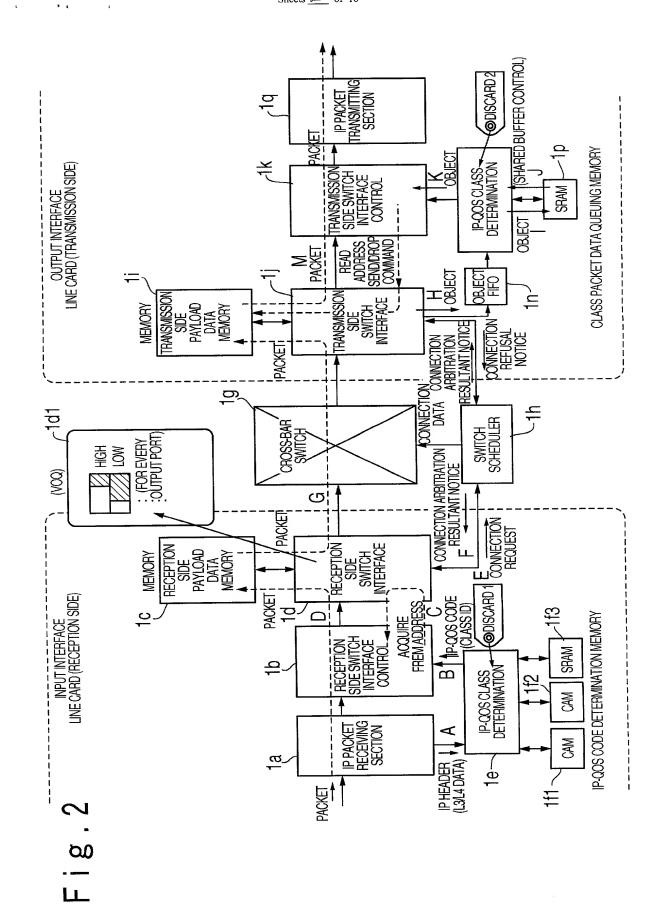
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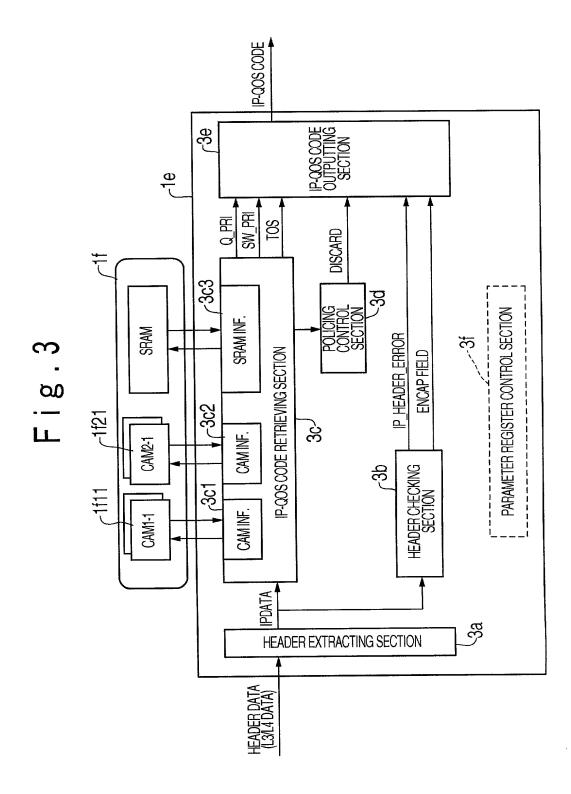
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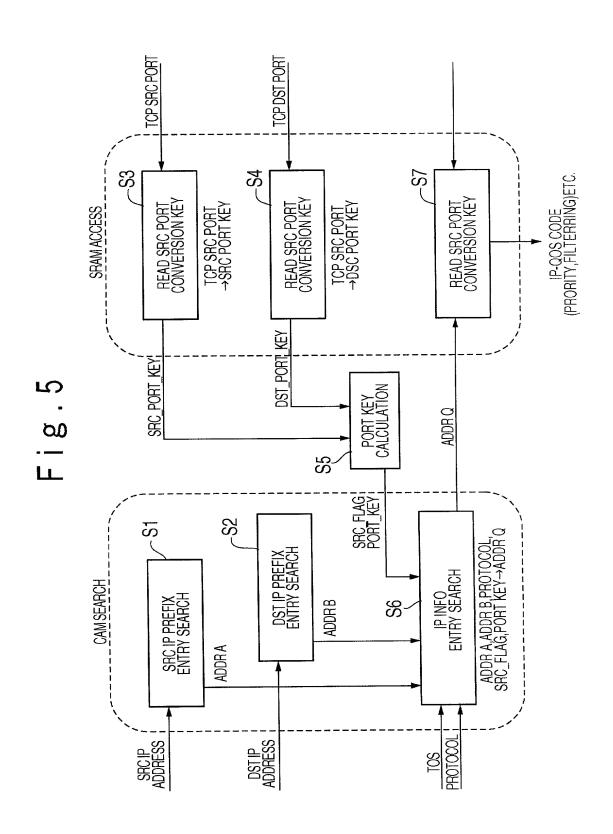


Fig.6A

[CAM REGION DIVISION]

CAM ADDRESS	CAM DATA (MAX.64 BITS)	MASK PATTERN (64 BITS)	SEARCH METHOD
ADDR_A~	IP SRC PREFIX ENTRY STORAGE REGION		LONGEST MATCH
ADDR_B~	IP DST PREFIX ENTRY STORAGE REGION		LONGEST MATCH
ADDR_Q~	IP INFO SEARCH ENTRY STORAGE REGION		FULL MATCH WITH MASK

Fig.6B

[1,IP SRC PREFIX ENTRY STORAGE REGION: SEARCH CODE 0000]

CAM ADDRESS (ADDR_A)	G <i>i</i>	AM DATA (38	BITS)	
	HW #(2)	SEARCH CODE(4)	IP SRC ADRESS/ PREFIX(32BITS)	NON USED(26 BITS)
A #1	00	0000	IP SRC ADDRESS #1/PREFIX	
A #2	00	0000	IP SRC ADDRESS #2/PREFIX	
A #3	01	0000	IP SRC ADDRESS #1/PREFIX	
:	:	:	:	

Fig.7A

[2,IP DST PREFIX ENTRY STORAGE REGION : SEARCH CODE 0001]

CAM	CAM	DATA (38 BI	TS)	
ADDRESS (ADDR_B)	HW #(2)	SEARCH CODE(4)	IP DST ADDRESS/ PREFIX(32BITS)	NON USED(26 BITS)
B #1	00	0001	IP DST ADDRESS #1/PREFIX	
B #2	00	0001	IP DST ADDRESS #2/PREFIX	
B #3	01	0001	IP DST ADDRESS #1/PREFIX	
:	i	:	:	

Fig.7B

[3,IP INFO ADDRESS ENTRY STORAGE REGION: SEARCH CODE 0010]

CAM	CA	M DATA (55 BITS	5)					
ADDRESS (ADDR_Q)	HW #(2)	SEARCH CODE(4)			TOS (8)	PROTO COL# (8)	SRC/ DST (1)	PORT KEY (8)	NON USED (5 BITS)
Q #1	00	0010	A1	B1	01	TCP	S	HTTP	
Q #2	00	0010	A1	B2	04	UDP	D	SNMP	
Q #3	01	0010	A3	B1	02	TCP	S	FTP	
:	:	:	:	:	:	:	:	:	

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			١					
	DATA(24 BIT)	(
UPPER 2 BITS=00 LOWER 14 BITS=HIT ADDR_Q Q_I	PRI(4)		۵.	운	Q_PRI(4) D P ROUTE(1+4)	OUTI TOS(OUTPUT TOS(2+8)	RESERVE (3)
ADDR Q0 00	0000	0	0	0	0000 0 0	11	11 011011 00	
	1101	0	-	0	1 0 0000	#	11 011010 00	
	1101	0	0 0	0	0000	8	00 000000 00	
ADDR QI	1110	0	-	-	1 0101	00	00 000000 00	

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Fig.9

FRAGMENT OFFSET L4 DST PORT ≥ 5 SRC IP ADDRESS IDENTIFICATION PPP HEADER L4 SRC PORT 3 **DETAGRAM LENGTH** (IPV4 & TCP/UDP/OTHER HEADER FORMAT) HEADER CHECKSUM 47 PROTOC OL , TOS **DST IP ADDRESS EMPTY DATA** 로 VER/ E WORD 63 0 c_V

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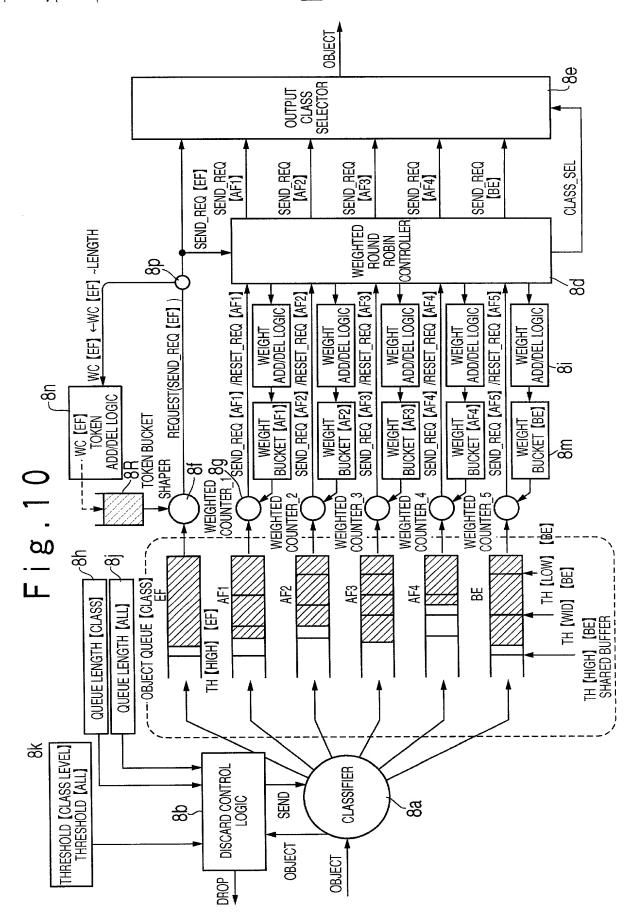
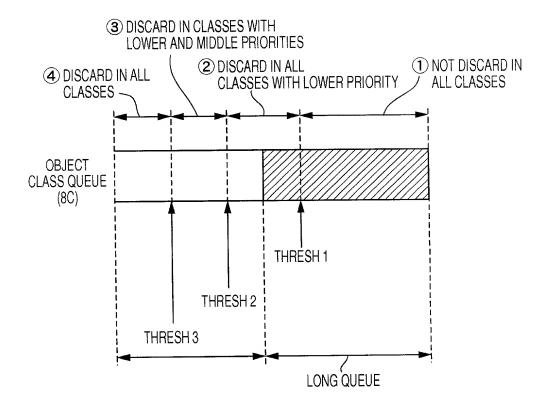
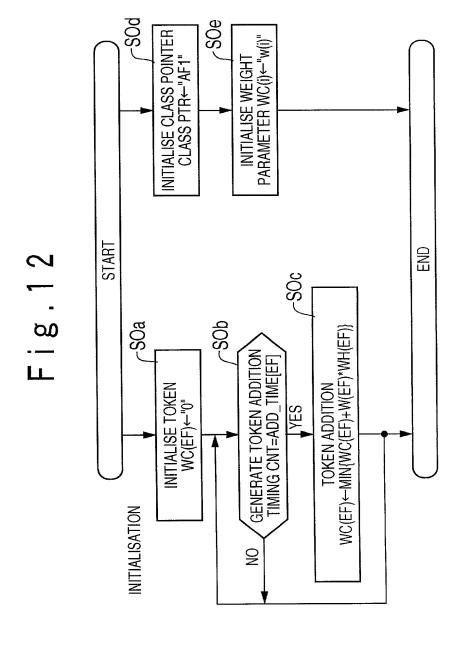
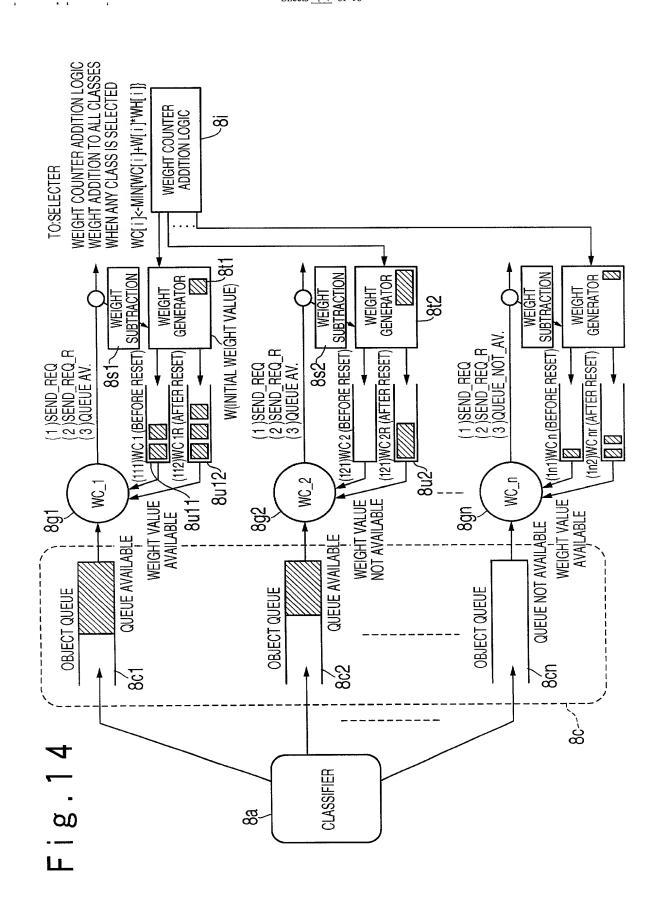


Fig.11





And the said that the fact that the THE AND ACT AND THE ACT AND THE



WC<=MIN(WC+TOKEN,B) LENGTH **PACKET** TOKEN ADD/DEL LOGIC 8 DEL ADD α 9 දි COMP TOKEN Fig.15 TOKEN AVAILABLE? Ω **TOKEN BUCKET %** PROVIDE BUFFER IF SHAPING IS CARRIED OUT TOKEN BUCKET MODEL B:DEPTH OF BUCKET R:AVERAGE RATE LENGTH **PACKET** INPUT-

